

PROBLEMAS DE TRIGONOMETRÍA

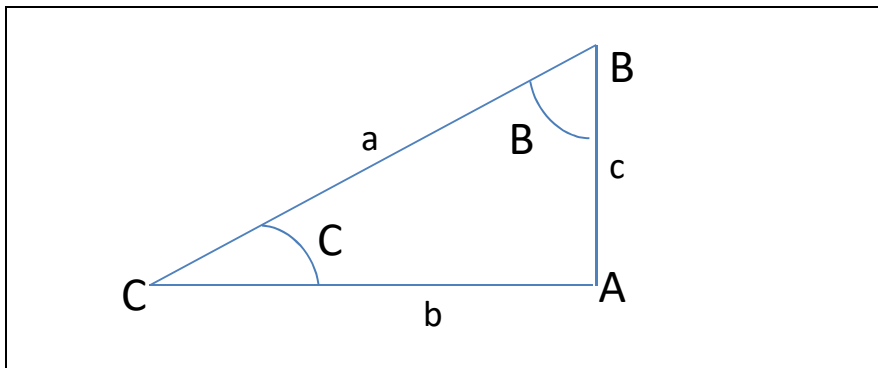
Problema 125:

Calcular los ángulos agudos de un triángulo rectángulo, verificándose:

$$\frac{b}{c} = \frac{3}{8}$$

Solución Problema 125:

Hacemos el croquis:



Sabemos que:

$$\frac{b}{c} = \frac{3}{8}$$

$$b = \frac{3c}{8}$$

$$\operatorname{tg} B = \frac{b}{c}$$

$$B = \operatorname{arctg} \frac{b}{c} = \operatorname{arctg} \frac{3}{8} = \operatorname{arctg} 0,375 = 20^{\circ},556 = 20^{\circ}33'21'',6$$

$$C = 90 - B = 90 - 20,556 = 69,444 = 69^{\circ}26'38'',40$$